

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re Patent Application of:

Sung Su JUNG, et al

Application No.: Not Yet Assigned

Group Art Unit: N/A

Filed: June 30, 2003

Examiner: Not Yet Assigned

For: METHOD FOR MANUFACTURING  
LIQUID CRYSTAL DISPLAY DEVICE

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A copy of each reference on PTO/SB/08 is attached.

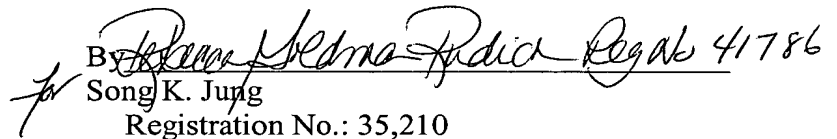
While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-0911.

Dated: June 30, 2003

Respectfully submitted,

  
By Song K. Jung Registration No.: 35,210  
MCKENNA LONG & ALDRIDGE LLP  
1900 K Street, N.W.  
Washington, DC 20006  
(202) 496-7500  
Attorneys for Applicant

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	June 30, 2003
				First Named Inventor	Sung S. Jung
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	5	Attorney Docket Number	8733.846.00-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	2001-0021000-A1 ✓	09-13-2001	Egami	
	AB	4,094,058-	06-13-1978	Yasutake et al.	
	AC	4,691,995-A1	09-08-1987	Yamazaki et al.	
	AD	5,875,922-B1	03-02-1999	Chastine et al.	
	AE	6,304,311-B1	10-16-2001	Egami et al.	
	AF	5,247,377-B1	09-21-1993	Omeis et al.	
	AG	5,511,591-	04-30-1996	Abe	
	AH	5,642,214-	06-24-1997	Ishii et al.	
	AI	5,742,370-	04-21-1998	Kim et al.	
	AJ	6,011,609-	01-04-2000	Kato et al.	
	AK	6,016,178-	01-18-2000	Kataoka et al.	
	AL	6,055,035-	04-25-2000	von Gutfeld et al.	
	AM	6,163,357-	12-19-2000	Nakamura	
	AN	6,226,067-B1	05-01-2001	Nishiguchi et al.	
	AO	6,304,306-B1	10-16-2001	Shiomi et al.	
	AP	6,414,733-B1	07-02-2002	Ishikawa et al.	
	AQ	3,978,580-A1	09-07-1976	Leupp et al.	
	AR	4,653,864-	03-31-1987	Baron et al.	
	AS	4,775,225-A1	10-04-1988	Tsuboyama et al.	
	AT	5,263,888-	11-23-1993	Ishihara et al.	
	AU	5,379,139-A1	01-03-1995	Sato et al.	
	AV	5,406,989-A1	04-18-1995	Abe	
	AW	5,499,128-A1	03-12-1996	Hasegawa et al.	
	AX	5,507,323-	04-16-1996	Abe	
	AY	5,539,545-	07-23-1996	Shimizu et al.	
	AZ	5,548,429-	08-20-1996	Tsujita	
	AA1	5,680,189-	10-21-1997	Shimizu et al.	
	AB1	5,757,451-	05-26-1998	Daisuke Miyazaki et al.	
	AC1	5,852,484-	12-22-1998	Kazuo Inoue et al.	
	AD1	5,854,664-	12-29-1998	Kazuo Inoue et al.	
	AE1	5,861,932-	01-19-1999	Masashi Inata et al.	
	AF1	5,956,112-	09-21-1999	Fujimori et al.	
	AG1	6,001,203-	12-14-1999	Yamada et al.	
	AH1	6,016,181-	01-18-2000	Shimada	
	AI1	6,219,126-B1	04-17-2001	von Gutfeld	
	AJ1	6,236,445-B1	05-22-2001	Foschaar et al.	
	AK1	6,337,730-B1	01-08-2002	Ozaki et al.	
	AL1	5,952,678-	09-14-1999	Ashida	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	June 30, 2003
				First Named Inventor	Sung S. Jung
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	5	Attorney Docket Number	8733.846.00-US

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					
	BA	JP-05-154923-	✓	06-22-1993	Fukuo et al.		
	BB	KR-2000-035302-A1	✓	06-26-2000	Yoshihiro		
	BC	JP-06-235925-	✓	08-23-1994	Katsuya		
	BD	JP-06-313870-	✓	11-08-1994	Fukuo et al.		
	BE	JP-07-084268-	✓	03-31-1995	Hiroshi et al.		
	BF	JP-08-101395-	✓	04-16-1996	Satoru et al.		
	BG	JP-09-061829-	✓	03-07-1997	Satoru et al.		
	BH	JP-10-177178-	✓	06-30-1998	Shinichi et al.		
	BI	JP-10-333157-	✓	12-18-1998	Takayuki et al.		
	BJ	JP-10-333159-	✓	12-18-1998	Takayuki et al.		
	BK	JP-11-133438-	✓	05-21-1999	Shinichi et al.		
	BL	JP-11-142864-	✓	05-28-1999	Takashi et al.		
	BM	JP-11-248930-	✓	09-17-1999	Satoru et al.		
	BN	JP-11-326922-	✓	11-26-1999	Yuji		
	BO	JP-2000-002879-	✓	01-07-2000	Masaki		
	BP	JP-2000-056311-	✓	02-25-2000	Satoru et al.		
	BQ	JP-2000-066165-	✓	03-03-2000	Koji et al.		
	BR	JP-2000-137235-	✓	05-16-2000	Norihiko et al.		
	BS	JP-2000-147528-	✓	05-24-2000	Nobutaka et al.		
	BT	JP-2000-193988-	✓	07-14-2000	Taijin et al.		
	BU	JP-2000-241824-	✓	09-08-2000	Masanori et al.		
	BV	JP-2000-284295-	✓	10-13-2000	Satoshi et al.		
	BW	JP-2000-292799-	✓	10-20-2000	Yoshiteru et al.		
	BX	JP-2000-310759-	✓	11-07-2000	Norihiko		
	BY	JP-2000-310784-	✓	11-07-2000	Kazuo et al.		
	BZ	JP-2000-338501-	✓	12-08-2000	Hideaki		
	BA1	JP-2001-005401-	✓	01-12-2001	Kiyoshi et al.		
	BB1	JP-2001-005405-	✓	01-12-2001	Satoshi et al.		
	BC1	JP-2001-013506-	✓	01-19-2001	Seiji et al.		
	BD1	JP-2001-033793-	✓	02-09-2001	Shinichiro et al.		
	BE1	JP-2001-042341-	✓	02-16-2001	Masayuki et al.		
	BF1	JP-2001-051284-	✓	02-23-2001	Norihiko		
	BG1	JP-2001-066615-	✓	03-16-2001	Katsuki et al.		
	BH1	JP-2001-091727-	✓	04-06-2001	Koji et al.		
	BI1	JP-2001-117109-	✓	04-27-2001	Hideki et al.		
	BJ1	JP-2001-133745-	✓	05-18-2001	Satoshi et al.		
	BK1	JP-2001-133799-	✓	05-18-2001	Satoshi		
	BL1	JP-2001-166272-	✓	06-22-2001	Kiyoshi et al.		
	BM1	JP-2001-166310-	✓	06-22-2001	Takashi et al.		
	BN1	JP-2001-183683-	✓	07-06-2001	Akinori et al.		
	BO1	JP-2001-201750-	✓	10-04-2001	Kazuyuki et al.		
	BP1	JP-2001-209052-	✓	08-03-2001	Hideaki		
	BQ1	JP-2001-209060-	✓	08-03-2001	Yoshiro et al.		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	Not Yet Assigned	
			Filing Date	June 30, 2003	
			First Named Inventor	Sung S. Jung	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	3	of	5	Attorney Docket Number	8733.846.00-US

	BR1	JP-2001-215459-	✓	09-13-2001	Norihiko		
	BS1	JP-2001-222017-	✓	08-17-2001	Kunihiro et al.		
	BT1	JP-2001-235758-	✓	08-31-2001	Katsuki		
	BU1	JP-2001-272640-	✓	10-05-2001	Kuniaki		
	BV1	JP-2001-281675-	✓	10-10-2001	Yutaka et al.		
	BW1	JP-2001-281678-	✓	10-04-2001	Hirokyu et al.		
	BX1	JP-2001-282126-	✓	10-12-2001	Masayuki et al.		
	BY1	JP-2001-305563-	✓	10-31-2001	Akira et al.		
	BZ1	JP-2001-330837-	✓	11-30-2001	Kazufumi		
	BA2	EP-1 003 066 A1-A1	✓	05-24-2000	Egami et al.		
	BB2	JP-2001-356353-	✓	12-26-2001	Satoshi et al.		
	BC2	JP-51-065656-	✓	06-07-1976	Yoichi		
	BD2	JP-59-057221-	✓	04-02-1984	Yoshio et al.		
	BE2	JP-59-195222-	✓	11-06-1984	Osamu		
	BF2	JP-60-111221-	✓	06-17-1985	Masanori et al.		
	BG2	JP-57-038414-A1	✓	03-03-1982	Naoaki et al.		
	BH2	JP-57-088428-A1	✓	06-02-1982	Tsutomu		
	BI2	JP-58-027126-A1	✓	02-17-1983	Takao		
	BJ2	JP-60-164723-A1	✓	08-27-1985	Tooru		
	BK2	JP-60-217343-A1	✓	10-30-1985	Kiyohiro		
	BL2	JP-61-007822-A1	✓	01-14-1986	Shinjiro		
	BM2	JP-61-055625-A1	✓	03-20-1986	Norio et al.		
	BN2	JP-62-089025-A1	✓	04-23-1987	Shinji et al.		
	BO2	JP-62-090622-A1	✓	04-25-1987	Akihiro et al.		
	BP2	JP-62-205319-A1	✓	09-09-1987	Akira et al.		
	BQ2	JP-63-109413-A1	✓	05-14-1988	Yoshiro		
	BR2	JP-63-110425-A1	✓	05-14-1988	Motoi		
	BS2	JP-63-128315-A1	✓	05-31-1988	Toshiyasu		
	BT2	JP-63-311233-A1	✓	12-20-1988	Yoko et al.		
	BU2	JP-05-127179-A1	✓	05-25-1993	Hiroshi		
	BV2	JP-05-265011-A1	✓	10-15-1993	Katsuki		
	BW2	JP-05-281557-A1	✓	10-29-1993	Hisao et al.		
	BX2	JP-05-281562-A1	✓	10-29-1993	Satoshi et al.		
	BY2	JP-06-051256-A1	✓	02-25-1994	Koji et al.		
	BZ2	JP-06-148657-A1	✓	05-27-1994	Yoshinori et al.		
	BA3	JP-06-160871-	✓	06-07-1994	Yoshinori et al.		
	BB3	JP-06-265915-A1	✓	09-22-1994	Hirotsada et al.		
	BC3	JP-07-128674-A1	✓	05-19-1995	Yoshiyuki et al.		
	BD3	JP-07-181507-A1	✓	07-21-1995	Teruhiko		
	BE3	JP-08-095066-A1	✓	04-12-1996	Kazuhiro et al.		
	BF3	JP-08-106101-A1	✓	04-23-1996	Yoshiro et al.		
	BG3	JP-08-171094-A1	✓	07-02-1996	Shinji et al.		
	BH3	JP-08-190099-A1	✓	07-23-1996	Yoshiro et al.		
	BI3	JP-08-240807-A1	✓	09-17-1996	Yoshiro et al.		
	BJ3	JP-09-005762-A1	✓	01-10-1997	Hirokyu		
	BK3	JP-09-026578-A1	✓	01-28-1997	Kunihiro et al.		
	BL3	JP-09-073075-A1	✓	03-18-1997	Junji et al.		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	June 30, 2003
				First Named Inventor	Sung S. Jung
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	4	of	5	Attorney Docket Number	8733.846.00-US

	BM3	JP-09-073096-A1	✓	03-18-1997	Hideki et al.		
	BN3	JP-09-127528-A1	✓	05-16-1997	Kunihiro et al.		
	BO3	JP-09-230357-A1	✓	09-05-1997	Teruhiko		
	BP3	JP-09-281511-A1	✓	10-31-1997	Kunihiro et al.		
	BQ3	JP-09-311340-A1	✓	12-02-1997	Satoshi		
	BR3	JP-10-123537-A1	✓	05-15-1998	Norihiko et al.		
	BS3	JP-10-123538-A1	✓	05-15-1998	Hideki et al.		
	BT3	JP-10-142616-A1	✓	05-29-1998	Hideyuki et al.		
	BU3	JP-10-221700-A1	✓	08-21-1998	Kunihiro et al.		
	BV3	JP-10-282512-A1	✓	10-23-1998	Hideyuki		
	BW3	JP-11-014953-A1	✓	01-22-1999	Takahiro		
	BX3	JP-11-038424-A1	✓	02-12-1999	Kunihiro et al.		
	BY3	JP-11-064811-A1	✓	03-05-1999	Naoto		
	BZ3	JP-11-109388-A1	✓	04-23-1999	Yuzo et al.		
	BA4	JP-11-174477-A1	✓	07-02-1999	Katsuki et al.		
	BB4	JP-11-212045-A1	✓	08-06-1999	Shirou		
	BC4	JP-11-344714-A1	✓	12-14-1999	Masaaki et al.		
	BD4	JP-2000-029035-	✓	01-28-2000	Naoya et al.		
	BE4	JP-2001-117105-	✓	04-27-2001	Takeshi		
	BF4	JP-2001-133794-	✓	05-18-2001	Kazuyuki		
	BG4	JP-2001-142074-	✓	05-25-2001	Makiko et al.		
	BH4	JP-2001-147437-	✓	05-29-2001	Makoto et al.		
	BI4	JP-2001-154211-	✓	06-08-2001	Yuichiro et al.		
	BJ4	JP-2001-255542-	✓	09-21-2001	Yuichi		
	BK4	JP-2001-264782-	✓	09-26-2001	Nobumasa et al.		
	BL4	JP-2001-330840-A1	✓	11-30-2001	Hisaaki et al.		
	BM4	JP-2001-356354-A1	✓	12-26-2001	Hiroyuki et al.		
	BN4	JP-2002-014360-A1	✓	01-18-2002	Norihiko et al.		
	BO4	JP-2002-023176-A1	✓	01-23-2002	Koji		
	BP4	JP-2002-049045-A1	✓	02-15-2002	Takeshi		
	BQ4	JP-2002-082340-A1	✓	03-22-2002	Sadaichi et al.		
	BR4	JP-2002-090759-A1	✓	03-27-2002	Koji		
	BS4	JP-2002-090760-A1	✓	03-27-2002	Norihiko		
	BT4	JP-2002-107740-A1	✓	04-10-2002	Mitsuaki		
	BU4	JP-2002-122872-A1	✓	04-26-2002	Tetsuo et al.		
	BV4	JP-2002-122873-A1	✓	04-26-2002	Yasuo		
	BW4	JP-2002-139734-	✓	05-17-2002	Hiroyuki et al.		
	BX4	JP-2002-202512-A1	✓	07-19-2002	Akimasa		
	BY4	JP-2002-202514-A1	✓	07-19-2002	Satoshi et al.		
	BZ4	JP-2002-214626-A1	✓	07-31-2002	Shinichi		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

DC:124697.1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	June 30, 2003
				First Named Inventor	Sung S. Jung
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	5	of	5	Attorney Docket Number	8733.846.00-US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--